Indiana Statewide 2005 Color Orthophotography Project
Summary of Products

Natural Color Orthophotography (1-foot and 6-inch)
High resolution orthophotography is used to establish a seamless, statewide base map that adheres to consistent standards.

- The base map data will support GIS at accuracies or 5-foot or better for mapping critical infrastructure, choke points, demographic data, etc.
- High accuracy GIS data is used for emergency management preparedness, planning, mitigation, response and recovery from CBRNE events.

Color Infrared (CIR) Orthophotography (1-meter)
CIR orthophotography adds additional radiometric spectrum for analysis using remote sensing modeling programs. The CIR band of the orthophotography will allow for analyses difficult or not otherwise practical using natural color imagery, including:

- Support the Department of Defense (DoD) requirement for all military facilities to develop new land cover and land use data to support facility management (particularly encroachment and sustainability), training, and ESA activities.
- CIR orthophotography will support chemical and biological event preparedness and response using high accuracy mapping of water bodies and land cover that provide chemical pathways and suitable habitat for disease vectors.

Digital Elevation Model
High accuracy digital elevation model (DEM) data provides a surface elevation model that corresponds with the high resolution orthophotography. DEM data are used in conjunction with the GIS for modeling applications, including:

- 3-dimensional surface modeling, including buildings and above ground infrastructure that allow for 3-D fly throughs
- Topographic surface mapping for determining chemical plume and heavier-than-air gas pathways.

Additional Products Not Included
Additional products that are potentially available (raw data are collected but not processed) through this project include stereo-pair imagery, bare-earth digital terrain model, and 5-foot or better contours.